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Demaria, Marco

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The Pierre Auger collaboration
E-mail: auger_spokespersons@fnal.gov

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1 Parameters of vertical SD energy bias

In the original article, there were typographical errors in the values of the parameters in eq. (B.5). The correct values are $P_0 = 0.0566$, $P_1 = -0.0720$, $P_2 = 0.0227$.

2 Parameterization of inclined SD energy resolution

The original article incorrectly stated that the folding procedure for the inclined spectrum was fully described in ref. [68], which actually only contains a qualitative discussion. The parameterizations we used for the trigger efficiency $\mathcal{T}$, the energy bias b and the energy resolution σ_E/E were: $\mathcal{T} = 1$; $b = 1$; and

$$\sigma_E/E = \sqrt{\sigma_{\rm det}^2 + \sigma_{\rm sh}^2}/c_1, \text{ where } \quad \sigma_{\rm det} = p_0 + \frac{p_1}{\sqrt{c_0 (E/10\ {\rm EeV})^{c_1}}}, \quad \sigma_{\rm sh} = 0.143, \tag{2.1}$$

with $p_0 = 0.03896$, $p_1 = 0.1128$ and $c_0 = 1.746$, $c_1 = 0.9938$.

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The Pierre Auger collaboration

A. Aab,[63] P. Abreu,[70] M. Aglietta,[48,47] I. Al Samarai,[29] I.F.M. Albuquerque,[16] I. Allekotte,[1] A. Almela,[8,11] J. Alvarez Castillo,[62] J. Alvarez-Muñiz,[79] G.A. Anastasi,[38] L. Anchordoqui,[83] B. Andrada,[8] S. Andringa,[70] C. Aramo,[45] F. Arqueros,[77] N. Arsene,[73] H. Asorey,[1,24] P. Assis,[70] J. Aublin,[29] G. Avila,[9,10] A.M. Badescu,[74] A. Balaceanu,[71] R.J. Barreira Luz,[70] J.J. Beatty,[88] K.H. Becker,[31] J.A. Bellido,[12] C. Berat,[30] M.E. Bertaina,[56,47] X. Bertou,[1] P.L. Biermann,[b] P. Billoir,[29] J. Biteau,[28] S.G. Blaess,[12] A. Blanco,[70] J. Blazek,[25] C. Bleve,[50,43] M. Boháčová,[25] D. Boncioli,[40,d] C. Bonifazi,[22] N. Borodai,[67] A.M. Botti,[8,33] J. Brack,[82] I. Brancus,[71] T. Bretz,[35] A. Bridgeman,[33] F.L. Briechle,[35] P. Buchholz,[37] A. Bueno,[78] S. Buitink,[63] M. Buscemi,[52,42] K.S. Caballero-Mora,[60] L. Caccianiga,[53] A. Cancio,[11,8] F. Canfora,[63] L. Caramete,[72] R. Caruso,[52,42] A. Castellina,[48,47] G. Cataldi,[43] L. Cazon,[70] A.G. Chavez,[61] J.A. Chinellato,[17] J. Chudoba,[25] R.W. Clay,[12] R. Colalillo,[54,45] A. Coleman,[89] L. Collica,[47] M.R. Coluccia,[50,43] R. Conceição,[70] F. Contreras,[9,10] M.J. Cooper,[12] S. Coutu,[89] C.E. Covault,[80] J. Cronin,[90,†] S. D'Amico,[49,43] B. Daniel,[17] S. Dasso,[5,3] K. Daumiller,[33] B.R. Dawson,[12] R.M. de Almeida,[23] S.J. de Jong,[63,65] G. De Mauro,[63] J.R.T. de Mello Neto,[22] I. De Mitri,[50,43] J. de Oliveira,[23] V. de Souza,[15] J. Debatin,[33] O. Deligny,[28] C. Di Giulio,[55,46] A. di Matteo,[51,41,e] M.L. Díaz Castro,[17] F. Diogo,[70] C. Dobrigkeit,[17] J.C. D'Olivo,[62] Q. Dorosti,[37] R.C. dos Anjos,[21] M.T. Dova,[4] A. Dundovic,[36] J. Ebr,[25] R. Engel,[33] M. Erdmann,[35] M. Erfani,[37] C.O. Escobar,[g] J. Espadanal,[70] A. Etchegoyen,[8,11] H. Falcke,[63,66,65] G. Farrar,[86] A.C. Fauth,[17] N. Fazzini,[g] B. Fick,[85] J.M. Figueira,[8] A. Filipčič,[75,76] O. Fratu,[74] M.M. Freire,[6] T. Fujii,[90] A. Fuster,[8,11] R. Gaior,[29] B. García,[7] D. Garcia-Pinto,[77] F. Gaté,[f] H. Gemmeke,[34] A. Gherghel-Lascu,[71] P.L. Ghia,[28] U. Giaccari,[22] M. Giammarchi,[44] M. Giller,[68] D. Głas,[69] C. Glaser,[35] G. Golup,[1] M. Gómez Berisso,[1] P.F. Gómez Vitale,[9,10] N. González,[8,33] A. Gorgi,[48,47] P. Gorham,[91] A.F. Grillo,[40,†] T.D. Grubb,[12] F. Guarino,[54,45] G.P. Guedes,[18] M.R. Hampel,[8] P. Hansen,[4] D. Harari,[1] T.A. Harrison,[12] J.L. Harton,[82] A. Haungs,[33] T. Hebbeker,[35] D. Heck,[33] P. Heimann,[37] A.E. Herve,[32] G.C. Hill,[12] C. Hojvat,[g] E. Holt,[33,8] P. Homola,[67] J.R. Hörandel,[63,65] P. Horvath,[26] M. Hrabovský,[26] T. Huege,[33] J. Hulsman,[8,33] A. Insolia,[52,42] P.G. Isar,[72] I. Jandt,[31] S. Jansen,[63,65] J.A. Johnsen,[81] M. Josebachuili,[8] A. Kääpä,[31] O. Kambeitz,[32] K.H. Kampert,[31] I. Katkov,[32] B. Keilhauer,[33] E. Kemp,[17] J. Kemp,[35] R.M. Kieckhafer,[85] H.O. Klages,[33] M. Kleifges,[34] J. Kleinfeller,[9] R. Krause,[35] N. Krohm,[31] D. Kuempel,[35] G. Kukec Mezek,[76] N. Kunka,[34] A. Kuotb Awad,[33] D. LaHurd,[80] M. Lauscher,[35] R. Legumina,[68] M.A. Leigui de Oliveira,[20] A. Letessier-Selvon,[29] I. Lhenry-Yvon,[28] K. Link,[32] L. Lopes,[70] R. López,[57] A. López Casado,[79] Q. Luce,[28] A. Lucero,[8,11] M. Malacari,[90] M. Mallamaci,[53,44] D. Mandat,[25] P. Mantsch,[g] A.G. Mariazzi,[4] I.C. Mariş,[78] G. Marsella,[50,43] D. Martello,[50,43] H. Martinez,[58] O. Martínez Bravo,[57] J.J. Masías Meza,[3] H.J. Mathes,[33] S. Mathys,[31] J. Matthews,[84] J.A.J. Matthews,[93] G. Matthiae,[55,46] E. Mayotte,[31] P.O. Mazur,[g] C. Medina,[81] G. Medina-Tanco,[62] D. Melo,[8] A. Menshikov,[34] M.I. Micheletti,[6] L. Middendorf,[35] I.A. Minaya,[77] L. Miramonti,[53,44] B. Mitrica,[71] D. Mockler,[32] S. Mollerach,[1] F. Montanet,[30] C. Morello,[48,47] M. Mostafá,[89] A.L. Müller,[8,33] G. Müller,[35] M.A. Muller,[17,19] S. Müller,[33,8] R. Mussa,[47] I. Naranjo,[1] L. Nellen,[62] P.H. Nguyen,[12] M. Niculescu-Oglinzanu,[71] M. Niechciol,[37] L. Niemietz,[31] T. Niggemann,[35] D. Nitz,[85] D. Nosek,[27] V. Novotny,[27] H. Nožka,[26] L.A. Núñez,[24] L. Ochilo,[37] F. Oikonomou,[89] A. Olinto,[90] M. Palatka,[25] J. Pallotta,[2] P. Papenbreer,[31] G. Parente,[79] A. Parra,[57] T. Paul,[87,83] M. Pech,[25] F. Pedreira,[79] J. Pękala,[67] R. Pelayo,[59] J. Peña-Rodriguez,[24] L. A. S. Pereira,[17] M. Perlín,[8] L. Perrone,[50,43] C. Peters,[35] S. Petrera,[51,38,41] J. Phuntsok,[89] R. Piegaia,[3] T. Pierog,[33] P. Pieroni,[3] M. Pimenta,[70] V. Pirronello,[52,42] M. Platino,[8] M. Plum,[35] C. Porowski,[67] R.R. Prado,[15] P. Privitera,[90] M. Prouza,[25] E.J. Quel,[2] S. Querchfeld,[31] S. Quinn,[80] R. Ramos-Pollan,[24] J. Rautenberg,[31] D. Ravignani,[8] B. Revenu,[f] J. Ridky,[25] M. Risse,[37] P. Ristori,[2] V. Rizi,[51,41] W. Rodrigues de Carvalho,[16] G. Rodriguez Fernandez,[55,46] J. Rodriguez Rojo,[9] D. Rogozin,[33] M.J. Roncoroni,[8] M. Roth,[33] E. Roulet,[1] A.C. Rovero,[5] P. Ruehl,[37] S.J. Saffi,[12] A. Saftoiu,[71] F. Salamida,[51,41] H. Salazar,[57] A. Saleh,[76] F. Salesa Greus,[89] G. Salina,[46] F. Sánchez,[8] P. Sanchez-Lucas,[78] E.M. Santos,[16] E. Santos,[8] F. Sarazin,[81] R. Sarmento,[70] C.A. Sarmiento,[8] R. Sato,[9] M. Schauer,[31] V. Scherini,[43] H. Schieler,[33] M. Schimp,[31] D. Schmidt,[33,8] O. Scholten,[64,c] P. Schovánek,[25]

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F.G. Schröder,[33] A. Schulz,[32] J. Schulz,[63] J. Schumacher,[35] S.J. Sciutto,[4] A. Segreto,[39,42] M. Settimo,[29] A. Shadkam,[84] R.C. Shellard,[13] G. Sigl,[36] G. Silli,[8,33] O. Sima,[73] A. Śmiałkowski,[68] R. Šmída,[33] G.R. Snow,[92] P. Sommers,[89] S. Sonntag,[37] J. Sorokin,[12] R. Squartini,[9] D. Stanca,[71] S. Stanič,[76] J. Stasielak,[67] P. Stassi,[30] F. Strafella,[50,43] F. Suarez,[8,11] M. Suarez Durán,[24] T. Sudholz,[12] T. Suomijärvi,[28] A.D. Supanitsky,[5] J. Swain,[87] Z. Szadkowski,[69] A. Taboada,[32] O.A. Taborda,[1] A. Tapia,[8] V.M. Theodoro,[17] C. Timmermans,[65,63] C.J. Todero Peixoto,[14] L. Tomankova,[33] B. Tomé,[70] G. Torralba Elipe,[79] P. Travnicek,[25] M. Trini,[76] R. Ulrich,[33] M. Unger,[33] M. Urban,[35] J.F. Valdés Galicia,[62] I. Valiño,[79] L. Valore,[54,45] G. van Aar,[63] P. van Bodegom,[12] A.M. van den Berg,[64] A. van Vliet,[63] E. Varela,[57] B. Vargas Cárdenas,[62] G. Varner,[91] J.R. Vázquez,[77] R.A. Vázquez,[79] D. Veberič,[33] I.D. Vergara Quispe,[4] V. Verzi,[46] J. Vicha,[25] L. Villaseñor,[61] S. Vorobiov,[76] H. Wahlberg,[4] O. Wainberg,[8,11] D. Walz,[35] A.A. Watson,[a] M. Weber,[34] A. Weindl,[33] L. Wiencke,[81] H. Wilczyński,[67] T. Winchen,[31] M. Wirtz,[35] D. Wittkowski,[31] B. Wundheiler,[8] L. Yang,[76] D. Yelos,[11,8] A. Yushkov,[8] E. Zas,[79] D. Zavrtanik,[76,75] M. Zavrtanik,[75,76] A. Zepeda,[58] B. Zimmermann,[34] M. Ziolkowski,[37] Z. Zong[28] and Z. Zong[28]

[1] *Centro Atómico Bariloche and Instituto Balseiro (CNEA-UNCuyo-CONICET), Argentina*
[2] *Centro de Investigaciones en Láseres y Aplicaciones, CITEDEF and CONICET, Argentina*
[3] *Departamento de Física and Departamento de Ciencias de la Atmósfera y los Océanos, FCEyN, Universidad de Buenos Aires, Argentina*
[4] *IFLP, Universidad Nacional de La Plata and CONICET, Argentina*
[5] *Instituto de Astronomía y Física del Espacio (IAFE, CONICET-UBA), Argentina*
[6] *Instituto de Física de Rosario (IFIR) — CONICET/U.N.R. and Facultad de Ciencias Bioquímicas y Farmacéuticas U.N.R., Argentina*
[7] *Instituto de Tecnologías en Detección y Astropartículas (CNEA, CONICET, UNSAM) and Universidad Tecnológica Nacional — Facultad Regional Mendoza (CONICET/CNEA), Argentina*
[8] *Instituto de Tecnologías en Detección y Astropartículas (CNEA, CONICET, UNSAM), Centro Atómico Constituyentes, Comisión Nacional de Energía Atómica, Argentina*
[9] *Observatorio Pierre Auger, Argentina*
[10] *Observatorio Pierre Auger and Comisión Nacional de Energía Atómica, Argentina*
[11] *Universidad Tecnológica Nacional — Facultad Regional Buenos Aires, Argentina*
[12] *University of Adelaide, Australia*
[13] *Centro Brasileiro de Pesquisas Fisicas (CBPF), Brazil*
[14] *Universidade de São Paulo, Escola de Engenharia de Lorena, Brazil*
[15] *Universidade de São Paulo, Inst. de Física de São Carlos, São Carlos, Brazil*
[16] *Universidade de São Paulo, Inst. de Física, São Paulo, Brazil*
[17] *Universidade Estadual de Campinas (UNICAMP), Brazil*
[18] *Universidade Estadual de Feira de Santana (UEFS), Brazil*
[19] *Universidade Federal de Pelotas, Brazil*
[20] *Universidade Federal do ABC (UFABC), Brazil*
[21] *Universidade Federal do Paraná, Setor Palotina, Brazil*
[22] *Universidade Federal do Rio de Janeiro (UFRJ), Instituto de Física, Brazil*
[23] *Universidade Federal Fluminense, Brazil*
[24] *Universidad Industrial de Santander, Colombia*
[25] *Institute of Physics (FZU) of the Academy of Sciences of the Czech Republic, Czech Republic*
[26] *Palacky University, RCPTM, Czech Republic*
[27] *University Prague, Institute of Particle and Nuclear Physics, Czech Republic*
[28] *Institut de Physique Nucléaire d'Orsay (IPNO), Université Paris-Sud, Univ. Paris/Saclay, CNRS-IN2P3, France, France*
[29] *Laboratoire de Physique Nucléaire et de Hautes Energies (LPNHE), Universités Paris 6 et Paris 7, CNRS-IN2P3, France*
[30] *Laboratoire de Physique Subatomique et de Cosmologie (LPSC), Université Grenoble-Alpes, CNRS/IN2P3, France*
[31] *Bergische Universität Wuppertal, Department of Physics, Germany*
[32] *Karlsruhe Institute of Technology, Institut für Experimentelle Kernphysik (IEKP), Germany*
[33] *Karlsruhe Institute of Technology, Institut für Kernphysik (IKP), Germany*
[34] *Karlsruhe Institute of Technology, Institut für Prozessdatenverarbeitung und Elektronik (IPE), Germany*
[35] *RWTH Aachen University, III. Physikalisches Institut A, Germany*

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[36] *Universität Hamburg, II. Institut für Theoretische Physik, Germany*
[37] *Universität Siegen, Fachbereich 7 Physik — Experimentelle Teilchenphysik, Germany*
[38] *Gran Sasso Science Institute (INFN), L'Aquila, Italy*
[39] *INAF — Istituto di Astrofisica Spaziale e Fisica Cosmica di Palermo, Italy*
[40] *INFN Laboratori Nazionali del Gran Sasso, Italy*
[41] *INFN, Gruppo Collegato dell'Aquila, Italy*
[42] *INFN, Sezione di Catania, Italy*
[43] *INFN, Sezione di Lecce, Italy*
[44] *INFN, Sezione di Milano, Italy*
[45] *INFN, Sezione di Napoli, Italy*
[46] *INFN, Sezione di Roma "Tor Vergata", Italy*
[47] *INFN, Sezione di Torino, Italy*
[48] *Osservatorio Astrofisico di Torino (INAF), Torino, Italy*
[49] *Università del Salento, Dipartimento di Ingegneria, Italy*
[50] *Università del Salento, Dipartimento di Matematica e Fisica "E. De Giorgi", Italy*
[51] *Università dell'Aquila, Dipartimento di Scienze Fisiche e Chimiche, Italy*
[52] *Università di Catania, Dipartimento di Fisica e Astronomia, Italy*
[53] *Università di Milano, Dipartimento di Fisica, Italy*
[54] *Università di Napoli "Federico II", Dipartimento di Fisica "Ettore Pancini", Italy*
[55] *Università di Roma "Tor Vergata", Dipartimento di Fisica, Italy*
[56] *Università Torino, Dipartimento di Fisica, Italy*
[57] *Benemérita Universidad Autónoma de Puebla (BUAP), México*
[58] *Centro de Investigación y de Estudios Avanzados del IPN (CINVESTAV), México*
[59] *Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas del Instituto Politécnico Nacional (UPIITA-IPN), México*
[60] *Universidad Autónoma de Chiapas, México*
[61] *Universidad Michoacana de San Nicolás de Hidalgo, México*
[62] *Universidad Nacional Autónoma de México, México*
[63] *Institute for Mathematics, Astrophysics and Particle Physics (IMAPP), Radboud Universiteit, Nijmegen, Netherlands*
[64] *KVI — Center for Advanced Radiation Technology, University of Groningen, Netherlands*
[65] *Nationaal Instituut voor Kernfysica en Hoge Energie Fysica (NIKHEF), Netherlands*
[66] *Stichting Astronomisch Onderzoek in Nederland (ASTRON), Dwingeloo, Netherlands*
[67] *Institute of Nuclear Physics PAN, Poland*
[68] *University of Łódź, Faculty of Astrophysics, Poland*
[69] *University of Łódź, Faculty of High-Energy Astrophysics, Poland*
[70] *Laboratório de Instrumentação e Física Experimental de Partículas — LIP and Instituto Superior Técnico — IST, Universidade de Lisboa — UL, Portugal*
[71] *"Horia Hulubei" National Institute for Physics and Nuclear Engineering, Romania*
[72] *Institute of Space Science, Romania*
[73] *University of Bucharest, Physics Department, Romania*
[74] *University Politehnica of Bucharest, Romania*
[75] *Experimental Particle Physics Department, J. Stefan Institute, Slovenia*
[76] *Laboratory for Astroparticle Physics, University of Nova Gorica, Slovenia*
[77] *Universidad Complutense de Madrid, Spain*
[78] *Universidad de Granada and C.A.F.P.E., Spain*
[79] *Universidad de Santiago de Compostela, Spain*
[80] *Case Western Reserve University, U.S.A.*
[81] *Colorado School of Mines, U.S.A.*
[82] *Colorado State University, U.S.A.*
[83] *Department of Physics and Astronomy, Lehman College, City University of New York, U.S.A.*
[84] *Louisiana State University, U.S.A.*
[85] *Michigan Technological University, U.S.A.*
[86] *New York University, U.S.A.*
[87] *Northeastern University, U.S.A.*
[88] *Ohio State University, U.S.A.*
[89] *Pennsylvania State University, U.S.A.*
[90] *University of Chicago, U.S.A.*

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[91] *University of Hawaii, U.S.A.*
[92] *University of Nebraska, U.S.A.*
[93] *University of New Mexico, U.S.A.*

(a) School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom
(b) Max-Planck-Institut für Radioastronomie, Bonn, Germany
(c) also at Vrije Universiteit Brussels, Brussels, Belgium
(d) now at Deutsches Elektronen-Synchrotron (DESY), Zeuthen, Germany
(e) now at Université Libre de Bruxelles (ULB), Brussels, Belgium
(f) SUBATECH, École des Mines de Nantes, CNRS-IN2P3, Université de Nantes
(g) Fermi National Accelerator Laboratory, U.S.A.
(†) Deceased

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